

## Summary of 2019 On-farm Grafted Cucumber Trials

### On-farm trial #1:

**Location:** Camden IN

**Transplant date:** Feb. 22 2019

**Heating:** Plants were grown in a heated high tunnel

**Plant No. and plants lost:** By the end of Mar. 2019, 21 out of 38 non-grafted cucumbers died. None of the 72 grafted plants died.

**Harvest duration:** Apr. 17 - July 23

**Yield:**

Treatment	Yield (lb)	Yield (No.)
Corinto/Marvel	306.28	411
None grafted Corinto	41.5	66

**Grower notes:** We had very cold weather after transplanting, March 2-5 was near frozen every night.

### On-farm trial #2:

**Location:** Camden IN

**Transplant date:** Mar. 28, 2019

**Heating:** Plants were grown in an unheated high tunnel.

**Plant No. and plants lost:** By May 29, 6 out of 25 none grafted Corinto died; 2 out of 24 Corinto/Marvel died; 1 out of 24 Corinto/Carnivor died; 8 out of 25 none grafted Taurus died; 2 out of 24 Taurus/Marvel died; 4 out of 24 Taurus/Carnivor died.

**Harvest duration:** May 29 – June 28. Harvest ended because of bacterial wilt

**Yield:**

Treatment	Yield (lb)	Yield (No.)
Corinto/Carnivor	87.82	121
Corinto/Marvel	65.82	90
None grafted Corinto	28.5	47
Taurus/Carnivor	54.1	70
Taurus/Marvel	35.78	46
NG Taurus	36.52	49

### On-farm trial #3:

**Location:** Freedom IN

**Transplant date:** Mar. 28, 2019

**Heating:** Plants were grown in an unheated high tunnel

**Plant No. and plants lost:** By May 1, lost 10 out of the 24 none grafted Corinto. No plants lost for other treatments.

**Harvest duration:** May 14 - June 17. Harvest ended because of bacterial wilt

**Yield:**

Treatment	Yield (lb)	Yield (No.)
-----------	------------	-------------

Excelsior/Carnivor	56.54	247
Excelsior/Marvel	51.23	227
None grafted Excelsior	16.13	74
Corinto/Carnivor	67.42	118
Corinto/Marvel	78.41	137
None grafted Corinto	6.4	15

**Grower notes** May 1-All grafted plants are doing well. I think there may be a slight edge that Marvel is doing better than Carnivor on the stocks. I have lost 10 of the 24 non grafted Corinto. Have not lost any Excelsior. Both varieties of non grafted are very stunted. Both non grafted are fruiting heavily on the tops by the new leader. At this point I am not sure any of the non grafted will survive or amount to much production. I have only a few of the grafted plants that are small but look healthy.

#### On-farm trial #4:

**Location:** Evansville IN

**Transplant date:** Apr. 4, 2019

**Heating:** Plants were grown in an unheated high tunnel.

**Plant No. and plants lost:** By May 1, 13 out of 25 none grafted Taurus died; 9 out of 20 Taurus/Carnivor died; 14 out of 20 Taurus/Marvel died. Replanted

**Harvest duration:** May 19 – Aug. 2

**Yield:**

Treatment	Yield (lb)	Yield (No.)
None grafted Taurus	234.22	243
Taurus/Carnivor	230.99	235
Taurus/Marvel	213.07	234

#### On-farm trial #5

**Location:** Middletown, OH

**Transplant date:** Apr. 1, 2019

**Heating:** Plants were grown in an unheated high tunnel

**Plant No. and plants lost:** 21 plants of Socrates/Carnivor, 22 plants of Socrates/Marvel, 25 plants of none grafted Socrates were planted. No record on plant lost

**Harvest duration:** May 24 – Oct. 8

**Yield:**

Treatment	Yield (lb)/plant	Yield (No.)/plant
Socrates/Carnivor	20.6	16.5
Socrates/Marvel	21.6	16.7
Non-grafted Socrates	32.4	24.6

**Grower notes:** My conclusion is that I need to transplant into the hoop house the first of March to gain a growing advantage with the grafted plants.

### On-farm trial #6

**Location:** Lowell, IN

**Transplant date:** Apr. 12, 2019

**Heating:** Plants were grown in an unheated high tunnel

**Plant No. and plants lost:** Lost 9 out of 12 non-grafted plants; 2 out of 10 of Corinto/Marvel; 0 out of 15 of Corinto/Carnivor

**Harvest duration:** June 13 – Oct. 7

**Yield:**

Treatment	Yield (lb)	Yield (lb)/plant
Corinto/Carnivor	484.6	32.3
Corinto/Marvel	193.5	24.2
None grafted Corinto	29	10

### On-farm trial #7

**Location:** Silver Lake, IN

**Transplant date:** March 13, 2019

**Heating:** Plants were grown in a heated high tunnel

**Plant No. and plants lost:** Lost 3 out of 28 none grafted Corinto, 1 out of 28 Corinto/Marvel

**Harvest duration:** Apr. 28 – July 2

**Yield:**

Treatment	Yield (lb)	Yield (No.)
Corinto/Marvel	177.8	317
None grafted Corinto	112.6	202